Attorney Docket No.:

DC-0199

Inventors:
Serial No.:

Cheung et al. 10/043,539

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January 11, 2002

Page 3

## In the Specification:

Please replace the paragraph beginning at page 24, line 28, with the following rewritten paragraph:

--Cloning and sequence analysis of the sarR gene. To clone the gene encoding SarR, we blotted the ~12 kDa protein onto a PVDF membrane for N-terminal sequencing. The first 14 amino acids were X(K)IND(I)NDLVNA(S/T)F, (Seq. SEQ. ID NO.:8) with X being an unknown residue while those residues in parenthesis carried a putative assignment. In search the databank of the partially released S. aureus genome (www.tiger.org), we obtained a partial ORF of 47 amino acid sequence acids that corresponds to the Nterminal sequence of the ~12 kDa protein. By using two degenerate oligonucleotides of 30-nt each, a 141-bp fragment was amplified to probe a chromosomal digest of S. aureus strain RN6390, thus allowing identification of a ~4 kb ClaI hybridizing fragment. A plasmid DNA library containing ~3.5 kb ClaI fragments constructed in pACYC177 (26) was then screened with the 141-bp PCR-generated probe. A positive clone (pALC1361) yielding a ~4-kb insert at the ClaI site of pACYC177 vector was identified. In determining the sequence of the insert, and comparing the insert sequence with that of the 141-bp probe, the DNA sequence of the putative gene sarR was obtained (Fig. 1B) (GenBank accession #AF207701). The predicted SarR protein contains 115 amino acids, with a predominance of charged residues (34%) and a predicted molecular size of 13,689 daltons. The sarR gene has a putative shine Dalgarno sequence (AGGAGTGG) (SEO. ID NO:9) lying 7-bp upstream of the translation star, with typical initiation (ATG) and termination codons (TAA).

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10/043,539

Page 4

January 11, 2002

To ascertain the transcription start site and the putative promoter boxes, the 5'-end of the sarR transcript was mapped by primer extension, using an internal primer of the non-coding strand positioned near the N-terminus of the sarR coding region. The transcription initiation site is located 88-bp upstream of the translation start, thereby allowing identification of the putative -10 and -35 promoter boxes as TAGAAT (SEQ ID. No. NO:10) and TTACCG (SEQ ID. No. NO:11), respectively (Fig. 1B).--